THE TECH

VOL. XXVIII. NO. 79 BOSTON, MASS., FRIDAY, MAY 7, 1909 PRICE THREE CENTS

DR. TALBOT DINES SENIOR CHEMISTS

Experience in Business Life is Subject of Speeches

WHITNEY'S SOLUTION

Of Personal Equation — Practical Men and Professors Advise Early Experience

With about 65 men present, Dr. Talbot's dinner to the Seniors Wednesday evening proved one of the most enjoyable affairs of the season. At 6:30 the guests sat down to dinner in the Union, after which the speaking lasted until about half-past ten.

Dr. Talbot, the first speaker of the evening, spoke on the wish of the heads of the departments that the men, after leaving the Institute, should keep in close touch with it. He continued with a talk on the obligations and problems which men will meet in the business world. After leaving Tech, men should not be in too much of a hurry to get positions with high salaries, but should rather look for the experience which will in after life fit them to hold positions of the highest responsibility. His advice to his hearers was to get with men who appreciate good work, not to be too anxious about an increase in salary at short intervals, but to give their employers a chance to see whether or no they are interested in them, and then they will probably give them a material increase in salary. In closing Prof. Talbot said, "Be modest, and don't be timid."

The next speaker of the evening was Mr. Hubbard of the Ludlow Associates Manufacturing Co., of Ludlow, Mass. Mr. Hubbard gave an interesting talk on business life, with special reference to the responsibilities of the employer for his employees, and his liabilities to answer for the accidents which happen to his men while in his employ. He also spoke on the questions of insurance and the care of men during old age.

Mr. C. A. Stone of the firm of Stone and Webster, was the next speaker of the evening. He spoke of Institute men and said that the Tech man was probably the best example of the modern college man. In regard to business, he said that the man who could get a broad grasp of a situation was the man who succeeds. The best engineer, he stated, was the man who combines his theoretical training with his practical experience, and who can take a general grasp of his subject. He also advised the men to get experience as a first requisite for a successful career.

The next speaker, Dr. Whitney, of the Research Laboratory of the General Electric Co. of Schenectady, N. Y., nonresident professor of theoretical chemistry, and president of the American Chemical Society, corroborated Mr. Stone's statements, and said that, though a man must have a great deal of theoretical knowledge, he must couple this with practical experience. He made the hit of the evening by his solution of the personal equation by means of theoretical chemistry.

Dr. Dewey was the next speaker of the evening, and advised the men not to be too eager to get along immediately, but to seek the position which gives experience first rather than pecuniary reward. He said, "Don't get the reputation for being a rolling stone, but move around nevertheless."

Prof. Harrison W. Hayward, who concluded the program, spoke on the industrial education of workingmen, and said that a wave of this sort had already started to sweep the country. He advised the men to watch the development of industrial education in Massachusetts and throughout the country.

The University of Illinois has purchased an electric fire truck with a capacity of 600 feet of 2 1-2-inch hose.

CONSIDER JOINING NATIONAL SOCIETY

Mechanicals May Affiliate with American Main Organization

TALK ON GAS ENGINES

H. K. Spencer Tells of His Thesis Investigations — Lanza Advises Union

Prof. Gaetano Lanza, head of the course in Mechanical Engineering, addressed a meeting of the Mechanical Engineering Society, Wednesday evening, on the advisability of having the society affiliated with the American Society of Mechanical Engineers.

There are only four national engineering societies in the country. They are the societies of Mining, Electrical, Civil and Mechanical Engineers. Prof. Lanza seemed to favor combining with the national order. The expense he said would in all probability be slight. The chief advantages resulting would be that the society would be able to obtain the valuable reports and journals of the American Society at much reduced rates. Probably a number of these would be furnished the Institute society free of charge and more could be bought at a rate of about $2 per copy, rather than the $5 charged to non-members.

These papers, Prof. Lanza said, could be read and would form interesting discussion at meetings, and might occasionally replace the regular evening's speaking. Many other student bodies have joined with the national society, including those at Cornell, Purdue, University of Kansas, and the University of Illinois.

Pres. F. A. Dewey 1909, of the society appointed a committee of three to investigate the matter of a union with the national organization. The committee is A. L. Fabens 1910, A. G. Batchelder 1909, and F. A. Dewey 1910.

C. W. Hubbard 1909, the retiring president, was presented with a gavel in recognition of his services during the past season. Mr. Hubbard thanked the society and wished it great prosperity for the future.

The talk of the evening was an interesting one by H. K. Spencer 1909. Mr. Spencer told of his thesis work on the Meitz and Weiss, two cycle, three cylinder, gas engine. Oil was used for fuel. The engine is a German one. One of its most distinctive features is the method used for ignition. A small metal dome is heated at starting by means of a small lamp. Once the explosions have commenced the dome continues in a state of red heat as long as the engine continues to run, the heat of the explosions alone being sufficient to keep it in that state.

Mr. Spencer spoke chiefly of the effect of moisture in the cylinders. The conclusions that he had reached were as follows: Water keeps the piston cool at starting and there will therefore be less liability of sticking in the cylinder due to expansion. The engine friction will be decreased because the hard tarry deposits found ordinarily in engines are kept soft and in a slimy condition.

CHANGE SENIOR DANCE

It was decided at the meeting of the Class Day Committee yesterday afternoon to combine the Class Day Oration and the First Marshal's Speech, and this year both will be delivered by First Marshal Maurice Scharff.

The Senior Dance will be held Saturday evening, after the Musical Clubs concert, instead of on Monday evening, as previously announced. The reason given is that the Jubilee Smoker is set for Monday, and many of the men want to attend both.

Dark suits will be worn by all men attending with graduation exercises.

CIVILS HAVE BIG TIME AT BANQUET

Excellent Speeches by Men Of Department and Prof. Spofford

SWAIN GETS LOVING CUP

Expression of Gratitude Shown Spofford Promises Success Of Department

With Profs. G. F. Swain, C. M. Spofford, D. Porter and E. F. Miller, and Mr. T. E. Byrnes as speakers, the Civil Engineering Society held its annual dinner at the American House last night.

A large silver loving cup was presented to the resigning Hayward Professor by the first speaker of the evening, Prof. Porter.

To show how high he stood in the estimation of all those present, he asked Prof. Swain to rise and receive the cup as a token of the appreciation of his work done for the instructors and students of the Institute. The cup was the gift of former students.

Prof. Swain then told how much moved he was over the expression of gratitude on the part of the instructing staff and the student body. He had not yet reached the age, he said, in which you look back, but, at the same time, in past few months he had been looking back on the years spent at the Institute. He had gained more faith in the results of the work of instructors by the expression of gratitude shown lately. "The work of an engineer," he continued, "is not appreciated. Forty names are inscribed in the Hall of Fame in New York, but among them none of an engineer. This is not because the work they have done is insignificant, but perhaps because the training they have had in education has not been thorough enough. The

(Continued on page 3.)

TENNIS RANKING

Several Changes in Order of Playing in Tournament

Several changes have been made in the rating of the tennis players. The list of the ten best players has been greatly altered as a result of several challenges. Capt. T. B. Parker 1911 defeated F. W. Covill 1911, and now holds first place in the ranking. M. K. Sweet 1910, who held third place has withdrawn from competition, and by virtue of having defeated P. M. Wentworth 1909, H. P. Farrington 1909, now has Sweet's place. Pritchett defeated Barnes and M. D. Price 1910, held his place by beating D. V. Williamson 1910 who challenged him for his position.

The list as it now stands is as follows: 1, T. B. Parker 1911; 2, F. W. Covill 1911; 3, H. P. Farrington 1909; 4, P. M. Wentworth 1909, 5, T. B. Whittemore 1910; 6, L. Pritchett 1909; 7, A. Barnes 1909; 8, M. D. Price 1910; 9, D. V. Williamson 1910; 10, R. Runels 1911.

In the spring tournament the preliminary round has been played off. The results follow:

J. B. Little 1912, beat T. B. Polhemus 1911, by default. H. P. Farrington 1909 defeated M. K. Sweet 1910, 2-6,6-9,6-2. P. M. Wentworth 1909, beat T. C. Fisher 1912, 6-1, 6-3. G. M. Keith 1912, beat J. H. Ruckman 1910, by default. L. Pritchett 1909, beat H. D. Williams by default. C. B. Rowley 1912, beat T. Haslam 1911, 3-6, 6-3, 6-2. M. D. Price beat J. O. Greenan 1911, 6-5, 6-4.

In the second round F. W. Covill 1911 has put out T. B. Whittemore 1910 6-1, 6-3. H. P. Farrington 1909, beat P. M. Wentworth 1909, 6-4, 9-7. T. B. Parker 1911, beat M. D. Price 1910, 6-1 6-3. R. E. Runels 1911, beat J. A. Boyer 1912, 6-1, 6-0.

This round must be finished by Monday, May 11.

SEASON TICKETS FOR ALL SPORTS

Athletic Association Votes to Issue General Combination

FENCING IS DROPPED

Insignia Awarded to This Year's Team — Other Business Done at Meeting

At a meeting of the Advisory Council held on April 29, the following scheme for season tickets was approved, and at the meeting of the M. I. T. A. A. the plan was accepted:

SEASON TICKET REGULATIONS.

Price $3.00.

General Regulations.

Tickets are non-transferable, and must be signed by purchaser at time of purchase.

Ticket holders not limited to students or those connected with the Institute.

Tickets will give admittance but not reserved seats at:

1. All home track meets both indoor and outdoor, except the N. E. I. A. A. meeting.
2. Field Day.
3. All basket-ball games at Tech Gym.
4. All other athletic contests held at the Tech Gym, or athletic field under the direct auspices of the Advisory Council. Teams participating in said contests receive financial aid from Advisory Council.

No guarantee is made as to the number of these events.

Holders of season tickets will be given preference to reserved seats (not exceeding two) at:

1. Tech Field Day.
2. Track meets.
3. Tech sections at B. A. A., N. E. I. A. A., and I. C. A. A. Athssionap:wE I. A. A., and I. C. A. A. A. A. meets.

The tickets will be printed and turned over to the managers by the Advisory Council. Each manager must, before November 1st, deliver to the Advisory Council $2.00 for each ticket, or the unsold tickets. The difference of $1.00 will go to that branch of athletics.

Each manager at the beginning of the season will be given a grant by the Advisory Council, on the understanding that this grant will be all the team will receive from this source. The balance required by each team must be obtained by the sale of tickets, gate receipts, and from the proceeds of reserved seats.

In special circumstances, managers will obtain extra money through the same channels as at present, viz: petitioning the Advisory Council through the Athletic Association.

The Cross-Country and Hockey teams will have to raise a portion of the money they require by the sale of tickets as well as those branches of athletics which charge an entrance fee.

The managers of the Track and Baseball teams and the captain of the Cross-Country team are authorized to sell tickets.

Each manager will as usual be required to submit to the Advisory Council a detailed report of the receipts and expenditures as a guide to making appropriations for the next year.

(Continued on page 3.)

CALENDAR

FRIDAY, MAY 7.

6:15 P. M.—New York State Club dinner at Union.

SATURDAY, MAY 8.

12:00 P. M.—Senior Portfolio Comm. at Union.
2:15 P. M.—Track Meet at Field.
1:20 P. M.—Rifle Club leaves North Station.
2:00 P. M.—1912 vs. Gloucester at Gloucester.

MONDAY, MAY 10.

3:00 P. M.—Track work at Field.

THE TECH

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Editorial Staff.

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W. D. GREEN 1909 — *Societies Editor*
H. M. DAVIS 1911 — *Institute Editor*
J. N. STEPHENSON 1909 — *Athletic Editor*

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S. C. NEFF 1912 — *Business*

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Subscription - - - $1.50 per year in advance. Single Copies 3 Cents.

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Friday, May 7, 1909

With no dual meets this spring, the class games tomorrow should prove the most successful ever held at the Institute. The entry list is unusually large, and the contests promise to be high-class.

The interest taken in tomorrow's games will be a large factor toward the efforts that will be made to win the intercollegiates.

Sophomores, be careful! A laugh is a laugh only in the right place. Elsewhere it may go so far as to be a sneer. Although things amusing may happen unseen by a lecturer, don't go so far as to disconcert the lecturer, and then laugh further at that disconcertion. Respect the care and attention which is being unselfishly given to a course.

So fencing has passed out in a blaze of glory! It takes some courage to say at the end of a successful season that it is time for a sport to come to an end, but the Athletic Association evidently has its reasons, and the action is probably a wise one. At any rate, nobody can be dissatisfied with the record of this year's team, and it is much better to be able to look back to a past record with pride than to be obliged to apologize for a present one.

The Tech publishes elsewhere the revised draft of the plan for season tickets for athletics. This is no wild idea, put forward without thought for the consequences, but is a carefully planned and well-matured remedy for existing evils.

The athletic situation at the Institute has been for some time a critical one, and certain of the minor sports have been conducted at a loss. This condition must not continue; either the student body must come forward in support of the team, or the payment of professional coaches must be given up. In case of the latter action, deterioration of the team affected would be immediate and inevitable.

In the past many of the managers have been obliged to go about the Institute soliciting subscriptions for their teams, or selling tickets for this or that meet. Hereafter the student body will be no longer harassed by continual calls for quarters and half dollars, but each student who subscribes the $3.00 at the beginning of the season will be able to attend any or all of the Institute contests without further trouble on his part.

The plan to be tried at the Institute has been eminently successful at other colleges, and there would seem to be no reason why it should not work well this time.

COMMUNICATION

To the Editor of The Tech:

The Mining Department of the Massachusetts Institute of Technology desires to return thanks to Mr. E. D. Mellen for his kindness in presenting the department a Wagner Mica Plate Machine for generating static electricity. The machine will be of use in a number of ways, for ore separation, for settling dust, etc.

Robert H. Richards.

BIGELOW WILL SPEAK

The annual meeting of the Technology Club will be held next Tuesday at 7:45 o'clock, to hear reports, to elect officers for the ensuing year, and to consider any other business which may come up before the club. In connection with the meeting, the tenth Smoke Talk of the season will be held. Major John Bigelow, Jr., will talk on "Military Reminiscences."

At a meeting of the nominating committee, held April 1, the following persons were nominated for the ensuing year: for President, W. Lyman Underwood 1899; Vice-President, Seth K. Humphrey 1898; Secretary, Roger S. Williams 1895; Treasurer, Augustus H. Gill 1884; Members of the Council to serve three years, Arthur T. Bradley 1888, Andrew D. Fuller 1895, Walter E. Piper 1894, Howard L. Coburn 1897, William E. Mott 1889.

FAREWELL TO CLIFFORD

Thinks That Harvard Needs Some Good Red Tech Blood

Last night at the American House the Electrical Engineering Society gave a farewell dinner to Prof. H. E. Clifford. The banquet was well attended, and proved the most successful of the year from a social standpoint.

When John Mills, President of the Society, introduced Prof. Clifford as a man who since 1882 has needed no introduction to an Institute audience, and who for many years has needed no introduction to a technical audience, the applause was long and vigorous.

Prof. Clifford said that he felt extremely sorry that he should have to be present at a farewell dinner given in his own honor. The only reason for the change, he said, was that he felt that it was for the good of technical education. It was not a question of his cheering for Harvard, but of his advancing the new graduate school of science. There is, and probably never will be, any real rivalry between the Harvard school and the Institute, for the two schools are widely different, the Harvard school being a strictly graduate school.

He strongly advised the members of the club to get into personal contact with their fellow-men. Without it one misses the best part of life. Learn to appreciate the good qualities of your fellow-men, and you will profit immensely by it. If I am worth anything today, it is due to my personal contact with the members of my department here at the Institute.

"No matter how learned you may be or how brilliant, you will not be successful if you do not possess this subtle quality. It is the duty of every man to cultivate this power of application which

(Continued on page 4.)

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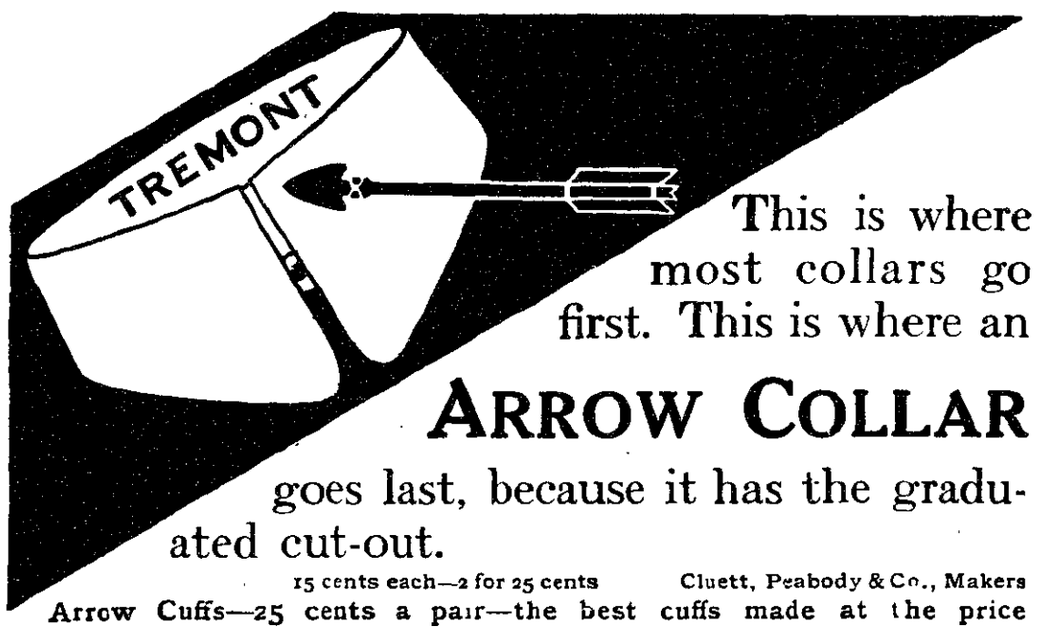

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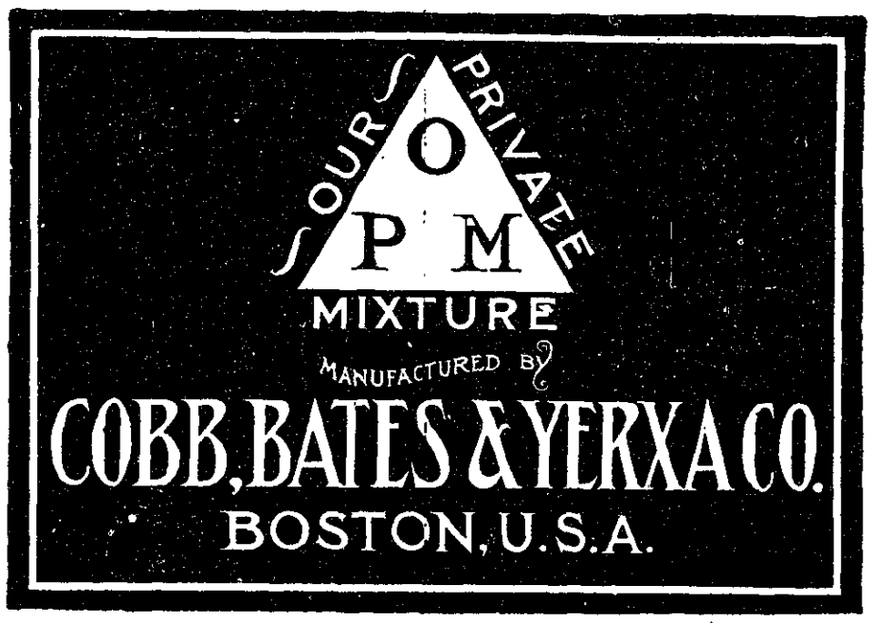

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OF TECHNOLOGY
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PUBLISHED BY THE ALUMNI
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83 NEWBURY STREET, BOSTON

The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

THE REVIEW is published during January, April, July, and October. Communications should be addressed to The TECHNOLOGY REVIEW, 83 Newbury St., Boston.

SUBSCRIPTION, TWO DOLLARS A YEAR
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SEASON TICKETS

(Continued from page 1.)

It is guaranteed to the student body that upon the support of this system by them, money for athletics will not be raised by popular subscription.

It is suggested by the Advisory Council that each man buy his tickets from the representative of the team in which he is interested. This suggestion is for the purpose of doing away with any cut-throat tendencies on the part of any representative selling tickets. After inquiry among 25 colleges East of the Mississippi from which considerable data was obtained the above season ticket system, a combination of the several college systems, was formulated by a committee of the A. A. in conjunction with the Advisory Council through Major F. H. Briggs 1881,

The price of the tickets is much less than at any other college from which word was received, being from $3 to $10 less than the athletic dues at these colleges. These will do away with the bothersome nagging of the students by managers for subscriptions and sale of tickets for each separate contest.

It will also, if supported by the students, place athletics at the Institute on a fair financial basis, and last but not least will insure better support of all varsity teams through the greater attendance at all games which this system must inevitably procure.

Fencing is dead. The sport was offiicially dropped by vote of the association. It was thought advisable to discontinue fencing after the very successful season that has just closed, than to try and run through another year with very precarious chances of getting out even a fair team.

The fencing insignia, "fTt" was awarded to H. G. Knox 1910, E. M. Loring 1909, and V. C. Grubnau 1909. Basketball letters, "BTB" were granted to P. M. Wentworth 1909, G. R. Lord 1910, T. B. Parker 1911, W. B. Hargraves 1910, A. T. Bennis 1912, and F. G. Taite 1909.

P. D. White was awarded his "T."

W. B. Hargraves resigned as manager of the basketball team, and W. D. Everett 1910, was elected to fill his place.

Paul Pearson 1911, was elected manager of the track team.

The schedule of the tennis team, which includes games with Brown, on May 15, and Wesleyan, May 22, was approved, also the intercollegiate track meet, on May 21 and 22.

President Gram was instructed to appoint two others to assist him in making arrangements for a big athletic mass meeting the first of next week.

P. D. White 1911, and K. D. Fernstrom 1910, were appointed to the advisory council as undergraduate representatives.

CIVILS HAVE BIG TIME

(Continued from page 1.)

principal reason for his leaving Tech is because at Harvard they have established such a course that will raise the standard of the engineering profession.

In conclusion, he expressed his sincere appreciation of what had been said and done.

Prof. Spofford was introduced as one with whom the men would be better acquainted in the future.

"The future of the civil department of the Institute, he said," is largely in the hands of the instructor, but is also in the hands of the students themselves to make good, honest, energetic, efficient men of themselves.

Prof. Miller next spoke and congratulated the students on their good fortune in geting such a man like Prof. Spofford as the head of their department.

He also spoke of the opinion of persons said men from smaller colleges seem to said men froom smaller colleges seem to have th e advantage, but in the end yoou will see Tech men win out.

Last Mr. Byrnes, Vice-President of the N. Y. N. H. & H. R. R. told how he was acquainted with Prof. Swain, and said he considered Tech as the greatest school in America through his acquaintance with Tech graduates out West.

"The engineering profession may be crowded," he said, "but that is only apparent, for there is plenty of room for the men who want to work. All the railroads in New England will be reconstructed within the next ten years, and the time is coming not so far away when the men from the executive offices of the railroads will be selected from those with a technical education.

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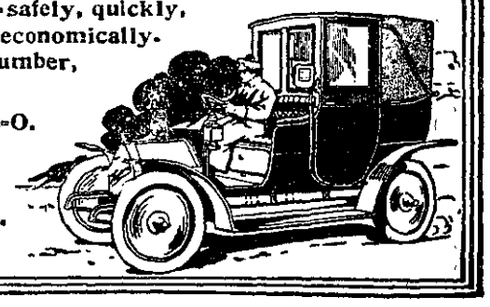

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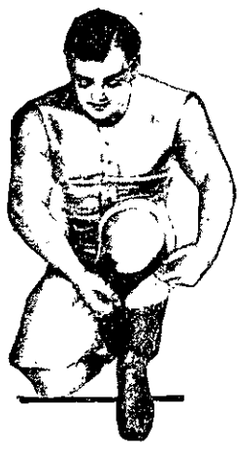
An Uplifting Story



A Good and Trustworthy Garter exerts a positive psychological influence. It Uplifts. It promotes poise and prompts Progress. It minimizes embarrassments. It works for mental peace. Men who are perpetually charged with a care for careless hose-supporter, cannot hope to concentrate on Great Deeds. Be Wise—Don't permit the tyranny of the trivial!

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fit the leg and introduce a radiating feeling of safety and security. Built by twentieth Century Man, for twentieth Century Men, they are complete and comforting. No metal chafes the flesh; no leather absorbs and holds perspiration.
Every pair sold with Moneybak Guarantee. You must be satisfied, or you can't wear Paris Garters. If you can't find Paris Garters at your Haberdasher's forward twenty-five cents for the simple kind or fifty cents for an ethereal, Immortal-like effect in silk.

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SPECIAL NOTICE

We wish all students to know that the clothing which we furnish, made in our workshops on the premises, is always the best that can be produced and will be found up to date in style, fabric and fit. We already have the patronage of many "Tech" students; we wish to see more in our store and extend an invitation to all to visit us, examine our merchandise, and step into the elevator and go through the workshops and see the clothing in process of manufacture.

Macullar Parker Co.

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MANUFACTURERS OF
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175 Washington St., Boston, Mass.
TELEPHONE 1738 MAIN

FAREWELL TO CLIFFORD

(Continued from page 2.)

constitutes the sweeter and aesthetic side of life."

In closing Prof. Clifford said that the sign of Technology was stamped right on him and could not be rubbed off. He felt that it would be good for Harvard to have some red Tech blood infused into it. He intends to boom the new school, but his heart is with Tech and what he will be will be due to the fact that he was once Prof. H. E. Clioffrd, Massachusets Institute of Technology.

The next meeting of the club will be on May 20, when Prof. Jackson, following his custom of previous years, will give a banquet to the society in the Union. Mr. Frank E. Sprague, the father of Heaavy Electric traction will speak. Through the invention of the multiple unit system of control by Mr. Sprague's heavy electric traction was made possible. His subject will be "Electric Traction—Past, Present, and Future." A large attendance is requested.

SPRING MEET

It is to be hoped that weather conditions will be fair for Saturday, and that the long-delayed spring meet can be run off.

The men have been training regularly for the events, and good sport should be the order of the day.

A number of new entries have been received, making the lists almost the largest on record for a spring meet.

It is expected that the handicap meet will be run off on next week Saturday.

A pleasing addition has been made to the Union in the gift of a beautiful case for the reading room.

The case is a combination glass affair. The upper part may be used for a display of trophies and cups, and the lower part for books.

Mrs. Linder is the donor. She is the mother of Prof. Goodwin, of the Physics Department.

NOTICES

1912.—Baseball team meet at Union at 1:30 to go to North Station to take 2:15 train for Gloucester. Fare 52 cents.

1909.—Meeting of those interesting in preparing a stunt for the All-Technology Reunion in the Union at 4 P. M. on Friday, May 7. M7

The Rifle Club will hold its spring shoot for the N. R. A. Buttons, tomorrow at Wakefield. Train leaves North Station at 1:20.

BATTALION GOVERNMENT INSPECTION.—The government inspector will inspect the battalion Wednesday, May 12. All cadets must wear clean white gloves. F3

Seats for the Tech section in the grandstand at the N. E. I. A. A. meet May 22nd, are on sale at the Union daily from 1 to 2 P. M. Price $1.50.

FACULTY NOTICE

In accordance with the rule of the Faculty Theses are to be handed to the Secretary of the Faculty, not later than Tuesday, May 25, 1909.

Please leave them for me with Mr. Wells, the Recorder, in the Registrar's office.

A. L. MERRILL, Secretary.

CLASSIFIED ADS

Advertisements under this head are inserted at the rate of five cents a line of six words, payable in advance, and copy should be handed to the business manager the morning before publication day.

LOST—Moore's fountain pen. Reward for its return to Pearl, 30 Eng. C.

TECH penants, banners and pillows. Leave note at Cage for E. Q. Adams. M7

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"TECH BOWLING HEADQUARTERS"

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Two minutes walk from all Tech Buildings. Unexcelled facilities for ladies and the most fastidious bowler to enjoy this fascinating and healthy pastime. Alleys reserved and screened for private parties. Come in and enjoy a little fun and exercise between periods.

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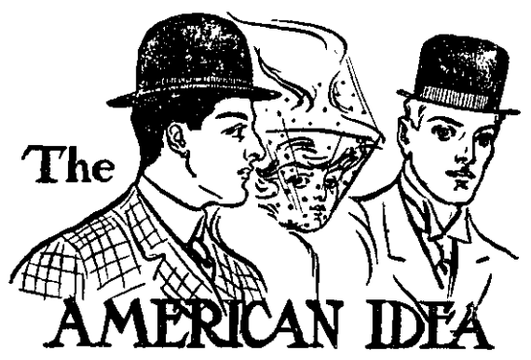

TWO STORES
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637 Washington St., Corner of Boylston